

THE FOLLOWING IS CLAIMED:

1. A method of treating a metal containing surface comprising:
cleaning the metal containing surface,
5 contacting the metal containing surface with at least one silica containing
composition wherein said composition further comprises at least one
carbonizable material,
drying said at least one silica containing compound,
10 recovering a treated metal containing surface.
2. A method for treating a metal containing surface comprising at least
one shaped electronic component comprising: contacting the component with
a coating composition comprising at least one silica containing composition,
15 or at least one borate containing composition wherein said composition further
comprises at least one carbonizable material,
drying said at least one composition,
recovering at least one treated electronic component.
3. A composition for use in treating a metal containing surface
20 comprising a combination of: at least one silica containing composition or at
least one borate containing composition, sugar, and at least one carrier.
4. The composition of Claim 3 wherein said combination comprises a
silica containing composition comprising silica and at least one silicate, and
said carrier comprises at least one water soluble polymer.
5. The method of Claim 1 wherein said metal containing surface
30 comprises at least one member chosen from the group of at least one electric
motor laminates, electric motor stacked rotor laminates, electric motor stator,
transformer laminates and stacked transformer laminates.

6. The method of Claim 2 wherein said composition comprises the composition of Claim 4.

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7. The method of Claim 2 wherein the composition comprises a borate containing composition comprising boric acid and sodium tetraborate

8. The method of Claim 2 further comprising contacting at least a portion of the surface of the recovered treated metal laminates with molten aluminum.

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9. The method of Claim 1 wherein said at least one silica or borate containing composition forms an electrically resistive coating.

10. The method of Claim 2 further comprising applying a secondary coating upon at least a portion of the coating composition.

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11. The coating composition of Claim 3 further comprising ferromagnetic particles.

12. The coating composition of Claim 3 further comprising at least one member chosen from the group of boron nitride, aluminum nitride, silicon carbide, silicon nitride and carbon.

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13. The method of Claim 2 wherein at least a portion of said composition forms an intumescent coating.

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14. The method of Claim 10 wherein said secondary coating comprises silica.

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15. The composition of Claim 3 wherein said carrier comprises at least one water soluble polymer comprising at least one member chosen from the group of urethanes and acrylics.

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16. The method of Claim 2 further comprising contacting said at least one treated motor lamination with molten aluminum.

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17. The method of Claim 16 wherein said molten aluminum reacts with at least a portion of said coating composition.

18. The method of Claim 2 wherein the composition has a basic pH.

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19. The composition of Claim 3 wherein the composition comprises a borate containing composition comprising boric acid and sodium tetraborate.

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20. An electric motor, a transformer or component thereof obtained by the method of Claim 16.

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